Index to Volume IX., Series II.

A.

Absorption Coefficients, The Effect of Previous Filtering upon the, of High Frequency X-Rays, *S. J. Allen* and *L. M. Alexander*, 198.

Absorption, On Some very large Variations in the, of Certain Specimens of Charcoal, *Harvey B. Lemon*, 336.

Absorption Spectra, The Influence of Water of Crystallization upon the, and Fluorescence, of Uranyl Nitrate, *Edward L. Nichols* and *Ernest Merritt*, 113

Accelerated Motion, A Study of the, of Small Drops through a Viscous Medium, *W. A. Shewhart*, 425.

Acoustical Thermometer, An, *F. R. Watson* and *H. T. Booth*, 339.

Actinium-Uranium Ratio, The, in Colorado Carnotite, *Karl H. Fussler*, 142.

Alpha Particles, New Methods for Counting the Beta and the, *Alois F. Kovarik*, 567.

Allen, S. J., The Effect of Previous Filtering upon the Absorption Coefficients of High Frequency X-Rays, 198.

Alexander, L. M., The Effect of Previous Filtering upon the Absorption of Coefficients of High Frequency X-Rays, 198.

Aluminum Rectifier, Counter Electromotive Force in the, *Albert Lewis Fitch*, 15.

Aluminium, The Crystal Structure of, and Silicon, *Albert W. Hull*, 564.

American Physical Society:
Abstracts, 84, 173, 254, 336, 555.
Minutes, 83, 168, 169, 554.

Anderson, J. A., A Study of the Stark Effect, 575.

Antimony, Note on the Elastic Constants of, and Tellurium Wires, *P. W. Bridgman*, 138.

Arnold, H. D., So-called "Ionization" Pressure of the Corona Discharge, 93.

Atoms, On the Nuclear Charges of, *Fernando Sanford*, 383.

Atomic Charges, A Note on the Relation between Ionizing Potentials and, *Fernando Sanford*, 575.

Audibility Current, A Simple Method for Determining the, of a Telephone Receiver, *Edward W. Washburn*, 437.

B.

Babcock, Harold D., Elimination of Pole Effect from Secondary Standards of Wave-Length, 577.

Bauer, L. A., Experiments Concerning "Magnet-Photography," 563.

Beta Particles, New Methods for Counting the Alpha and the, *Alois F. Kovarik*, 567.

Binaural Beats, An Experimental and Theoretical Investigation of, *G. W. Stewart*, 338.

Binaural Beats, *G. W. Stewart*, 502.

Binaural Beats, The Secondary Intensity Maxima in, *G. W. Stewart*, 509.

Binaural Beats, The Theory of, *G. W. Stewart*, 514.

Binaural Localization, The Intensity Factor in, and an Extension of Weber's Law, *G. W. Stewart* and *O. Hovda*, 338.

Bio-Physics, *Wheeler P. Davey*, 573.

Bishop, Fred M., Ionization Potentials in Hydrogen, Nitrogen and Nitrous Oxide, 567.

Blake, F. C., On the Free Vibrations of a Lecher System, IV., 177.
On the Measurement of "h" by Means of X-Rays, 568.

Booth, H. T., An Acoustical Thermometer, 339.

Bridgman, P. W., Note on the Elastic Constants of Antimony and Tellurium Wires, 138.
Theoretical Considerations in the Nature of Metallic Resistance, with Especial Regard to the Pressure Effects, 269.

Brown, S. LeRoy, A Calorimetric Resistance Thermometer, 205.

Brush, Charles F., Spontaneous Generation of Heat in Recently Hardened Steel, II., 228.

Burgess, R. W., The Comparison of a Certain Case of the Elastic Curve with its Approximation, 193.

C.

Capacity, Note on the Amount of Error in Applying to Non-Parallel Plates the Formula for Electrical, of Parallel Plates, 96.

Carnotite, The Actinium-Uranium Ratio in Colorado, *Karl H. Fussler*, 142.

Carter, Edna, Experiments of the Production, of Metallic Spectra by Cathode Luminescence, 94.

Case, T. W., Notes on the Change of Resistance of Certain Substances in Light, 305.

Cathode Luminescence, Experiments of the Production of Metallic Spectra by, *Arthur S. King* and *Edna Carter*, 94.

Cathode Potential, X-Ray Emissivity as a Function of, *David L. Webster*, 220.

Charcoal, On Some very large Variations in the Absorption of Certain Specimens of, *Harvey B. Lemon*, 336.

Child, C. D., Light Produced by the Recombination of Ions, 1.

Compton, Arthur H., The Intensity of X-Ray Reflection, and the Distribution of the Electrons in Atoms, 29.

Clark, Harry, Intensities of X-Rays of the L Series as a Function of Voltage, 571.

Coblentz. W. W., An Investigation of the Relative Sensibility of the Average Eye to Light of Different Colors and Some Practical Applications to Radiation Problems, 87.

Determination of Luminous Efficiency and the Mechanical Equivalent of Light, 569.

Application of the Photo-electric Cell as a Pyrheliometer, 572.

Compton, K. T., Temperature Coefficient of Contact Potential, A Rejoinder, 78.

The Passage of Photo-electrons through Metals, 558.

Conductivity of Gases, Note on the Use of the Electrometer for Measuring the, *J. A. Gilbreath*, 578.

Contact Potential, Temperature Coefficient of, A Rejoinder, *K. T. Compton*, 78.

Corona Discharge, So-called "Ionization" Pressure of the, *H. D. Arnold*, 93.

Corona in Hydrogen, A. C. and D. C., *John W. Davis*, 255.

Crehore, Albert C., Some Applications of the Electromagnetic Equations to Matter, Supposed to be Constituted of Positive and Negative Electrons, 445.

Crittenden, E. C., The Precision of Photometric Measurements, 95.

Cross-Magnetizing Fields, Some Effects of, upon Hysteresis, *N. H. Williams*, 339.

Crystal Structure, The, of Iron, *A. W. Hull*, 84.

Crystal Structure, The, of Aluminium and Silicon, *Albert W. Hull*, 564.

D.

Dadourian, H. M., On the Production of Soft X-Rays by Slow Moving Electrons, 563.

Dieterich, E. O., An Effect of Light upon the Contact Potential of Selenium and Cupreous Oxide, 58.

Distributed Capacity, On the Effect of, in Single Layer Solenoids, *J. C. Hubbard*, 529.

Davey, Wheeler P., Bio-Physics, 573.

The Effect of X-Rays on the Length of Life of Tribolium Confusum, 557.

Davis, Bergen, Wave Length Energy Distribution in the Continuous X-Ray Spectrum, 64.

Davis, John W., A. C. and D. C. Corona in Hydrogen, 255.

Davisson, C., The Electric-Magnetic Mass of the Parson Magneton, 570.

Dodd, L. E., Note on the Amount of Error in Applying to Non-Parallel Plates the Formula for Electrical Capacity of Parallel Plates, 96.

Dodd, L. E., A General Method of Producing the Stroboscopic Effect, and its Application in the Tonodeik, 340.

Duane, William, On the Measurement of "*h*" by Means of X-Rays, 568.

E.

Earth's Electric Charge, On the Origin of the, *W. F. G. Swann*, 555.

Elastic Constants, Note on the, of Antimony and Tellurium Wires, *P. W. Bridgman*, 138.

Elastic Curve, The Comparison of a Certain Case of the, With its Approximation, *R. W. Burgess*, 193.

Electric Carrier, The Mass of the, in Copper, Silver and Aluminium. *Richard C. Tolman* and *T. Dale Stewart*, 164.

Electrical Discharge from Points, The, *John Zeleny*, 562.

Electrical Oscillations, On the So-called Magnetic Rays of Righi, in Geissler Tubes; and the Periodic Interruption of Spark Discharges, *James E. Ives*, 349.

Electro-Magnetic Mass, The, of the Parson Magneton, *C. Davisson*, 570.

Electromotive Force, Counter, in the Aluminum Rectifier, *Albert Lewis Fitch*, 15.

Electrons, The Intensity of X-Ray Reflection and the Distribution of the, in Atoms, *Arthur H. Compton*, 29.

Electric Charge, On the Origin of the Earth's *W. F. G. Swann*, 555.

Electric Furnace, Experiments with the, on the Anomalous Dispersion of Metallic Vapors, *Arthur S. King*, 347.

Electric Furnace Spectra, Leading Features of the, of Calcium, Strontium, Barium and Magnesium, *Arthur S. King*, 576.

Electrified Liquid Surfaces, On the Instability of, *John Zeleny*, 572.

Electromagnetic Equations, Some Applications of the, to Matter, Supposed to be Constituted of Positive and Negative Electrons, *Albert C. Crehore*, 445.

Electromagnetic Mass, The Theory of, of the Parson Magneton and other Non-Spherical Systems, *David L. Webster*, 484.

Electrode Loss, Tungsten, in the Hydrogen Arc, *G. M. J. MacKay* and *C. V. Ferguson*, 573.

Electrometer, Note on the Use of the, for Measuring the Conductivity of Gases, *J. A. Gilbreath*, 578.

Electrons, On the Production of Soft X-Rays by Slow Moving, *H. M. Dadourian*, 563.

Emerson, W. B., An Investigation of the Relative Sensibility of the Average Eye to Light of Different Colors and Some Practical Applications to Radiation Problems, 87.

Emerson, W. B., Determinations of Luminous Efficiency and the Mechanical Equivalent of Light, 569.

Empirical Formulas, Note on the Determination by Judgment of the Constants of Linear, *Harry M. Roeser*, 80.

Erickson, C. J., An Air-Blast Rectifier of High Tension Alternating Currents, 480.

Erratum, 580.

F.

Ferguson, C. V., Tungsten Electrode Loss in the Hydrogen Arc, 573.

Fitch, Albert Lewis, Counter Electromotive Force in the Aluminum Rectifier, 15.

Fluorescence Spectra, The Influence of Water of Crystallization upon the, and Absorption, of Uranyl Nitrate, *Edward L. Nichols* and *Ernest Merritt*, 113.

French, N. R., Measurements in Frictional Electricity, 151.

Frictional Electricity, Measurements in, *N. R. French*, 151.

Fussler, Karl H., The Actinium-Uranium Ratio in Colorado Carnotite, 142.

G.

Galvanometer, The Use of the Einthoven, and a Detector of the Audion Type for Measuring the Strength of Radiotelegraphic Signals, *Laurens E. Whittemore*, 434.

Gilbreath, J. A., Note on the Use of the Electrometer for Measuring the Conductivity of Gases, 578.

Gorton, W. S., The Mica X-Ray Spectrometer. A Reply to Mr. Siegbahn, 127.

Gyroscopic Effects in the Parson Magneton, *David L. Webster*, 561.

H.

"*h*," On the Measurement of, by Means of X-Rays, *F. C. Blake* and *William Duane*, 568.

Heat, Spontaneous Generation of, in Recently Hardened Steel, II., *Charles F. Brush*, 228.

Hebb, T. C., The Single-Lined and the Many-Lined Spectrum of Mercury, 371.

High Vacuum Mercury Pump, An Improved, C. T. Knipp, 311.

Hovda, O., The Intensity Factor in Binaural Localization and an Extension of Weber's Law, 338.
Howes, H. L., On the Phosphorescence of the Uranyl Salts, 292.
Hubbard, J. C., On the Effect of Distributed Capacity in Single Layer Solenoids, 529.
Hull, A. W., The Crystal Structure of Iron, 84.
Hull, Albert W., The Crystal Structure of Aluminium and Silicon, 564.
Hysteresis, Some Effects of Cross-Magnetizing Fields upon, *N. H. Williams*, 339.

I.

Infra-Red Absorption Spectrum, The, of Naphthalene and of Some of its Monoderivatives in Solution, *A. H. Stang*, 542.
Ingersoll, L. R., Natural and Magnetic Rotatory Dispersion in the Infra-red Spectrum, 257.
Intensity Factor, The, in Binaural Localization and an Extension of Weber's Law, *G. W. Stewart* and *O. Hovda*, 338.
Ions, Light Produced by the Recombination of, *C. D. Child*, 1.
Ionized Gas, Polarization at the Cathode in a Highly, *C. A. Skinner*, 97.
Ionizing Potential, Note on the, of Metallic Vapors, *H. J. Van der Bijl*, 173.
"Ionization" Pressure, So-called, of the Corona Discharge, *H. D. Arnold*, 93.
Ionization Potentials in Hydrogen, Nitrogen and Nitrous Oxide, *Fred M. Bishop*, 567.
Ionizing Potentials, A Note on the Relation between, and Atomic Charges, *Fernando Sanford*, 575.
Iron, The Crystal Structure of, *A. W. Hull*, 84.
Ishida, Yoshio, The Kinetic Theory of Non-Spherical Rigid Molecules, 256.
Ives, James E., On the So-called Magnetic Rays of Righi; Electrical Oscillations in Geissler Tubes; and the Periodic Interruption of Spark Discharges, 349.

K.

Karrer, S., Tolman's Transformation Equations and the Photoelectric Effect, 290.
Kathodo-Luminescence, The, Produced by Certain Tribo-Luminescent Salts of Zinc, *C. W. Waggoner*, 175.
Kennard, E. H., An Effect of Light upon the Contact Potential of Selenium and Cuprous Oxide, 58.
Kinetic Theory, The, of Non-Spherical Rigid Molecules, *Yoshio Ishida*, 256.
King, Arthur S., Experiments of the Production of Metallic Spectra by Cathode Luminescence, 94.
The Effect of Oxygen on the Production of Band and Line Spectra in the Electric Furnace, 346.
Experiments with the Electric Furnace on the Anomalous Dispersion of Metallic Vapors, 347.
Leading Features of the Electric Furnace Spectra of Calcium, Strontium, Barium and Magnesium, 576.
Knipp, C. T., An Improved High Vacuum Mercury Pump, 311.
Kovarik, Alois F., New Methods for Counting the Alpha and the Beta Particles, 567.
Kunz, Jakob, On Photoelectric Photometry, 175.

L.

Lecher System, IV., On the Free Vibrations of a, *F. C. Blake* and *Charles Sheard*, 177.
Lemon, Harvey B., On Some Very Large Variations in the Absorption of Certain Specimens of Charcoal, 336.
Luckey, George P., The Tungsten Arc Under Pressure, 129.
Light, An Effect of, upon the Contact Potential of Selenium and Cuprous Oxide, *E. H. Kennard* and *E. O. Dieterich*, 58.
Luminous Efficiency, Determinations of, and the Mechanical Equivalent of Light, *W. W. Coblentz* and *W. B. Emerson*, 569.

M.

McAdie, Alexander, A New Thermometer Scale, 91.
MacKay, G. M. J., Tungsten Electrode Loss in the Hydrogen Arc, 573.
Magneton, The Theory of Electromagnetic Mass of the Parson, and other Non-Spherical Systems, *David L. Webster*, 484.

Magneton, The Electromagnetic Mass of the Parson, *David L. Webster*, 559.
Magneton, Gyroscopic Effects in the Parson, *David L. Webster*, 561.
Magneton, The Electro-Magnetic Mass of the Parson, *C. Davisson*, 570.
Magnet Photography, Experiments Concerning, *L. A. Bauer* and *W. F. G. Swann*, 563.
Magnetic Properties, The, of Fe, Ni, and Co above the Curie Point, and Keesom's Theory of Magnetization, *Earle M. Terry*, 255.
Magnetic Properties, The, of Iron, Nickel and Cobalt above the Curie Point, and Keeson's Quantum Theory of Magnetism, *Earle M. Terry*, 394.
Magnetic Permeability, The Measurement of, *Arthur Whitmore Smith*, 414.
Magnetization, The Magnetic Properties of Fe, Ni and Co above the Curie Point and Keesom's Theory of, *Earle M. Terry*, 255.
Magnetization, Time Lag in, *Arthur Whitmore Smith*, 419.
Mayer Experiment, An Extension of the, *R. R. Ramsey*, 254.
Measurable Quantities of Physics, The, *Richard C. Tolman*, 237.
Mechanical Equivalent of Light, Determinations of Luminous Efficiency and the, *W. W. Coblentz* and *W. B. Emerson*, 569.
Mercury Pump, An Improved High Vacuum, *C. T. Knipp*, 311.
Merritt, Ernest, The Influence of Water of Crystallization upon the Fluorescence and Absorption Spectra of Uranyl Nitrate, 113.
Metallic Resistance, Theoretical Considerations in the Nature of, with especial regard to the Pressure Effects, *P. W. Bridgman*, 269.
Metallic Spectra, Experiments of the Production of, by Cathode Luminescence, *Arthur S. King* and *Edna Carter*, 94.
Metallic Vapors, Note on the Ionizing Potential of, *H. J. Van der Bijl*, 173.
Millikan, R. A., Theoretical Considerations relating to the Single-Lined and the Many-Lined Spectrum of Mercury, 378.
Minor, Ralph S., An Optical Trough for High-School and College Demonstrations, 577.
Molecules, The Kinetic Theory of Non-Spherical Rigid, *Yoshio Ishida*, 256.
Moseley's Law, On, for X-Ray Spectra, *H. S. Uhler*, 562.
Mott, William Roy, Electrochemical Analogies of Photo-chemistry, 89.

N.

Naphthalene, The Infra-Red Absorption Spectrum of, and of Some of its Mono-derivatives in Solution, *A. H. Stang*, 542.
New Books, 440.
Nichols, Edward L., The Influence of Water of Crystallization upon the Fluorescence and Absorption Spectra of Uranyl Nitrate, 113.
On the Phosphorescence of the Uranyl Salts, 292.
Nuclear Charges, On the, of Atoms, *Fernando Sanford*, 383.

O.

Optical Properties, The, of an Isolated Crystal of Selenium, *Charles H. Skinner*, 148.
Optical Trough, An, for High School and College Demonstrations, *Ralph S. Minor*, 577.
Oxide, An Effect of Light upon the Contact Potential of Selenium and Cuprous, *E. H. Kennard* and *E. O. Dieterich*, 58.
Oxygen, The Effect of, on the Production of Band and Line Spectra in the Electric Furnace, *Arthur S. King*, 346.

P.

Phosphorescence, On the, of the Uranyl Salts, *Edward L. Nichols* and *H. L. Howes*, 292.
Photochemistry, Electrochemical Analogies of, *William Roy Mott*, 89.
Photometric Measurements, The Precision of, *F. K. Richtmyer*, 95.
Photometry of Lights, A Proposed Method for the, of Different Colors, II., *Irwin G. Priest*, 341.
Photo-electric Cell, Application of the, as a Pyrheliometer, *W. W. Coblentz*, 572.
Photo-electric effect, Tolman's Transformation Equations and the, *S. Karrer*, 290.

Photo-electric Potentials in the Schumann Region of the Spectrum, *P. E. Sabine*, 93.

Photo-electric Potentials for Extremely Short Wave-Lengths, *P. E. Sabine*, 210.

Photoelectric Photometry, On, *Jakob Kunz*, 175.

Photo-electrons, The Passage of, through Metals, *K. T. Compton* and *L. W. Ross*, 558.

Platinum, An Attempt to Detect a Change in the Emissive Properties of, and of Tungsten at Incandescence with a Change in the Method of Heating, *A. G. Worthing*, 226.

Polarization at the Cathode in a Highly Ionized Gas, *C. A. Skinner*, 97.

Polarization in Gases, Electrode, *C. A. Skinner*, 314.

Pole Effect, Elimination of, from Secondary Standards of Wave-Length, *Charles E. St. John*, 577.

Pressure Effects, Theoretical Considerations in the Nature of Metallic Resistance with especial regard to the, *P. W. Bridgman*, 269.

Priest, Irwin G., A Proposed Method for the Photometry of Lights of Different Colors, II., 341, 580.

Pyrheliometer, Application of the Photo-electric Cell as a, *W. W. Coblentz*, 572.

Q.

Quantum Theory of Magnetism, The Magnetic Properties of Iron, Nickel and Cobalt above the Curie Point and Keeson's, *Earle M. Terry*, 394.

R.

Radiation Problems, An Investigation of the Relative Sensibility of the Average Eye to Light of Different Colors and Some Practical Application to, *W. W. Coblentz* and *W. B. Emerson*, 87.

Radiotelegraphic Signals, The Use of the Einthoven Galvanometer and a Detector of the Audion Type for Measuring the Strength of the, *Laurens E. Whittemore*, 434.

Resistance, Notes on the Change of, of Certain Substances in Light, *T. W. Case*, 305.

Ramsey, R. R., An Extension of the Mayer Experiment, 254.

Rectifier Air-Blast, An, of High Tension Alternating Currents, *E. R. Wolcott* and *C. J. Erickson*, 480.

Resistance Thermometer, A Calorimetric, *S. LeRoy Brown*, 205.

Richtmyer, F. K., The Precision of Photometric Measurements, 95.

Richardson, O. W., Remarks on a Paper by Mr. E. R. Stoekle entitled "Thermionic Currents from Molybdenum," 500.

Righi; On the So-called Magnetic Rays of, Electrical Oscillations in Geissler Tubes; and the Periodic Interruption of Spark Discharges, *James E. Ives*, 349.

Roeser, Harry M., Note on the Determination by Judgment of the Constants of Linear Empirical Formulas, 80.

Ross, L. W., The Passage of Photo-electrons through Metals, 558.

Rotatory Dispersion, Natural and Magnetic, in the Infra-red Spectrum, *L. R. Ingersoll*, 257.

S.

Sabine, P. E., Photo-electric Potentials in the Schumann Region of the Spectrum, 93.

Photo-electric Potentials for Extremely Short Wave-Lengths, 210.

Sanford, Fernando, On the Nuclear Charges of Atoms, 383.

A Note on the Relation between Ionizing Potentials and Atomic Changes, 575.

Schumann Region, Photo-electric Potentials in the, of the Spectrum, *P. E. Sabine*, 93.

Selenium, The Optical Properties of an Isolated Crystal of, *Charles H. Skinner*, 148.

Selenium, An Effect of Light upon the Contact Potential of, and Cuprous Oxide, *E. H. Kennard* and *E. O. Dieterich*, 58.

Sensibility, An Investigation of the Relative, of the Average Eye to Light of Different Colors and Some Practical Applications to Radiation Problems, *W. W. Coblentz* and *W. B. Emerson*, 87.

Sheard, Charles, On the Free Vibrations of a Lecher System, IV., 177.
Shewhart, W. A., A Study of the Accelerated Motion of Small Drops through a Viscous Medium, 425.
Sieg, L. P., Preliminary Notes on the Torsional Elasticity of Drawn Tungsten Wires, 337.
Siegbahn, A Reply to Mr., The Mica X-Ray Spectrometer, *W. S. Gorton*, 127.
Silicon, The Crystal Structure of Aluminium and, *Albert W. Hull*, 564.
Skinner, C. A., Polarization at the Cathode in a Highly Ionized Gas, 97.
Electrode Polarization in Gases, 314.
The Optical Properties of an Isolated Crystal of Selenium, 148.
Smith, Arthur W., The Measurement of Magnetic Permeability, 414.
Smith, Arthur Whitmore, Time Lag in Magnetization, 419.
Solenoids, On the Effect of Distributed Capacity in Single Layer, *J. C. Hubbard*, 529.
Spark Discharges, On the So-called Magnetic Rays of Righi; Electrical Oscillations in Geissler Tubes; and the Periodic Interruption of, *James E. Ives*, 349.
Spectra, The Effect of Oxygen on the Production of Band and Line, in the Electric Furnace, *Arthur S. King*, 346.
Spectrometer, The Mica X-Ray, A Reply to Mr. Siegbahn, *W. S. Gorton*, 127.
Spectrum of Mercury, The Single-Lined and the Many-Lined, *T. C. Hebb*, 371.
Spectrum of Mercury, Theoretical Considerations relating to the Single-Lined and the Many-Lined, *R. A. Millikan*, 378.
Stang, A. H., The Infra-Red, Absorption Spectrum of Naphthalene and of Some of its Mono-derivatives in Solution, 542.
Stark Effect, A Study of the, *J. A. Anderson*, 575.
Steel, Spontaneous Generation of Heat in Recently Hardened (II)., *Charles F. Brush*, 228.
Stroboscopic Effect, A General Method of Producing the, and its Application in the Tonodeik, *L. E. Dodd*, 340.
St. John, Charles E., Elimination of Pole Effect from Secondary Standards of Wave-Length, 577.
Stewart, G. W., An Experimental and Theoretical Investigation of Binaural Beats, 338.
The Intensity Factor in Binaural Localization and an Extension of Weber's Law, 338.
Binaural Beats, 502.
The Secondary Intensity Maxima in Binaural Beats, 509.
The Theory of Binaural Beats, 514.
Stewart, T. Dale, The Mass of the Electric Carrier in Copper, Silver and Aluminium, 164.
Swann, W. F. G., On the Origin of the Earth's Electric Charge, 555.
Experiments Concerning "Magnet-Photography," 563.

T.

Tellurium Wires, Note on the Elastic Constants of Antimony and, *P. W. Bridgman*, 138.
Temperature Coefficient of Contact Potential, A Rejoinder, *K. T. Compton*, 78.
Terry, Earle M., The Magnetic Properties of Fe, Ni, and Co Above the Curie Point, and Keesom's Theory of Magnetization, 255.
The Magnetic Properties of Iron, Nickel and Cobalt above the Curie Point, and Keesom's Quantum Theory of Magnetism, 394.
Thermionic Currents, Remarks on a Paper by Mr. E. R. Stoekle entitled, from Molybdenum, *O. W. Richardson*, 500.
Thermometer Scale, A New, *Alexander McAdie*, 91.
Thermometer, An Acoustical, *H. T. Booth*, 339.
Tolman, Richard C., The Mass of the Electric Carrier in Copper, Silver and Aluminium, 164.
The Measurable Quantities of Physics, 237.
Tolman's Transformation Equations and the Photo-electric Effect, *S. Karrer*, 290.
Tonodeik, A General Method of Producing the Stroboscopic Effect and its Application in the, *L. E. Dodd*, 340.
Torsional Elasticity, Preliminary Notes on the, of Drawn Tungsten Wires, *L. P. Sieg*, 337.
Transformation Equations, Tolman's and the Photo-Electric Effect, *S. Karrer*, 290.

Tribo-Luminescent Salts of Zinc, The Kathodo-Luminescence Produced by Certain, *C. W. Waggoner*, 175.

Tungsten, An Attempt to Detect a Change in the Emissive Properties of Platinum and of, at Incandescence with a Change in the Method of Heating, *A. G. Worthing*, 226.

Tungsten Arc, The, Under Pressure, *George P. Luckey*, 129.

Tungsten Electrode Loss in the Hydrogen Arc, *G. M. J. MacKay* and *C. V. Ferguson*, 573.

Tungsten Wires, Preliminary Notes on the Torsional Elasticity of Drawn, *L. P. Sieg*, 337.

U.

Uranyl Nitrate. The Influence of Water of Crystallization upon the Fluorescence and Absorption Spectra of, *Edward L. Nichols* and *Ernest Merritt*, 113.

Uranyl Salts. On the Phosphorescence of the, *Edward L. Nichols* and *H. L. Howes*, 292.

Uhler, H. S., Critical Examination of the Law of X-Ray Line Spectra, 325.

On Moseley's Law for X-Ray Spectra, 562.

V.

Van der Bijl, H. J., Note on the Ionizing Potential of Metallic Vapors, 173.

Viscous Medium, A Study of the Accelerated Motion of Small Drops through a, *W. A. Shewhart*, 425.

W.

Waggoner, C. W., The Kathodo-Luminescence Produced by Certain Tribo-Luminescent Salts of Zinc, 175.

Washburn, Edward W., A Simple Method for Determining the Audibility Current of a Telephone Receiver, 437.

Watson, F. R., An Acoustical Thermometer, 339.

Wave-Length Energy Distribution in the Continuous X-Ray Spectrum, *Bergen Davis*, 64.

Weber's Law, The Intensity Factor in Binaural Localization and an Extension of, *G. W. Stewart* and *O. Hovda*, 338.

Wenster, David L., X-Ray Emissivity as a Function of Cathode Potential, 220.

The Theory of the Electromagnetic Mass of the Parson Magneton and other Non-Spherical Systems, 484.

The Electromagnetic Mass of the Parson Magneton, 559.

Gyroscopic Effects in the Parson Magneton, 561.

Intensities of X-Rays of the L Series as a Function of Voltage, 571.

Whittemore, Laurens E., The Use of the Einthoven Galvanometer and a Detector of the Audion Type for Measuring the Strength of Radiotelegraphic Signals, 434.

Williams, N. H., Some Effects of Cross-Magnetizing Fields upon Hysteresis, 339.

Wolcott, E. R., An Air-Blast Rectifier of High Tension Alternating Currents, 480.

Worthing, A. G., An Attempt to Detect a Change in the Emissive Properties of Platinum and of Tungsten at Incandescence with a Change in the Method of Heating, 226.

X.

X-Rays, The Effect of Previous Filtering upon the Absorption Coefficients of High Frequency, *S. J. Allen* and *L. M. Alexander*, 198.

X-Rays, The Effect of, on the Length of Life of *Tribolium Confusum*, *Wheeler P. Davey*, 557.

X-Rays, On the Production of Soft, by Slow Moving Electrons, *H. M. Dadourian*, 563.

X-Rays, On the Measurement of "*h*" by Means of X-Rays, *F. C. Blake* and *William Duane*, 568.

X-Ray Emissivity as a Function of Cathode Potential, *David L. Webster*, 220.

X-Ray Line Spectra, Critical Examination of the Law of, *H. S. Uhler*, 325.

X-Ray Reflection, The Intensity of, and the Distribution of the Electrons in Atoms, *Arthur H. Compton*, 29.

X-Ray Spectra, On Moseley's Law for, *H. S. Uhler*, 562.

X-Ray Spectrum, Wave-Length Energy

Distribution in the Continuous, *Bergen Davis*, 64.
X-Rays of the L Series, Intensities of, as a Function of Voltage, *David L. Webster* and *Harry Clark*, 571.

Z.

Zeleny, John, On the Instability of Electrified Liquid Surfaces, 572.
The Electrical Discharge from Points, 562.